WETLAND DI	TERMIN	ATION DA	TA FORM	- Alaska Region								
Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Denali Bo	rough Sampling Date:08-Aug-13								
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T169_08								
Investigator(s): BAB	l	andform (hil	lside, terrac	e, hummocks etc.): Gulch or Gully								
Local relief (concave, convex, none): undulating		Slope:	%/ 5.6	⁶ ⁸ Elevation: 698								
Subregion : Interior Alaska Mountains	Lat.: 6	63.41854247	 3	Long.: -148.629090645 Datum: NAD83								
Soil Map Unit Name:		0.11001211	<u> </u>	NWI classification: PSS1B								
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes • No												
Are Vegetation , Soil , or Hydrology and analy and about the Horman Circumstances present?												
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.												
Hydrophytic Vegetation Present? Yes O No O												
Hydric Soil Present? Yes • No	the Sam	ipled Area										
Wetland Hydrology Present? Yes No		w	ithin a W	/etland? Yes $ullet$ No $igloodow$								
Remarks: small active channels running through drainage of		verhung by v	regetation									
VEGETATION - Use scientific names of plants. L	ist all sna	cios in tho	nlot									
				Dominance Test worksheet:								
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1. Picea glauca	10		FACU	That are OBL, FACW, or FAC: <u>3</u> (A)								
2.	0			Total Number of Dominant Species Across All Strata: 4 (B)								
3.	0			Percent of dominant Species								
4.	0			That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)								
5.	0			Prevalence Index worksheet:								
Total Cover	10			Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover	:	OBL Species x 1 =								
1. Picea glauca	5		FACU	FACW Species <u>11.1</u> x 2 = <u>22.20</u>								
2. Salix alaxensis	15	\checkmark	FAC	FAC Species <u>89</u> x 3 = <u>267</u>								
3. Salix barclayi	10		FAC	FACU Species <u>15</u> x 4 = <u>60</u>								
4. Salix pulchra	10		FACW	UPL Species x 5 =10								
5. Salix reticulata	30	\checkmark	FAC	Column Totals: <u>120.1</u> (A) <u>362.2</u> (B)								
6. Vaccinium uliginosum	5		FAC	Prevalence Index = B/A = 3.016								
7. Empetrum nigrum	1		FAC									
8	0			Hydrophytic Vegetation Indicators:								
9				✓ Dominance Test is > 50%								
10	0			Prevalence Index is ≤ 3.0								
Total Cover Herb Stratum 50% of Total Cover:		of Total Cove	r: 15.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1. Equisetum arvense	25	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)								
2. Carex rotundata	3		OBL	¹ Indicators of hydric soil and wetland hydrology must								
3. Polemonium pulcherrimum	2		UPL	be present, unless disturbed or problematic.								
4. Swertia perennis	1		FACW									
5. Parnassia palustris	0.1		FACW	Plot size (radius, or length x width) <u>10m</u>								
6. Anemone richardsonii	3		FAC	% Cover of Wetland Bryophytes (Where applicable)								
7	0			% Bare Ground								
8.				Total Cover of Bryophytes								
9.												
10	0			Hydrophytic								
Total Cover				Vegetation								
50% of Total Cover:	7.05 20%	of Total Cover	: 6.82	Present? Yes \odot No \bigcirc								

Remarks:

	scription: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)	_			
(inches)	Depth		%	Color (moist)	%	% Type ¹		Texture	Remarks		
0-3							<u>Loc</u> ²	Fibric Organics			
3-13	10YR	2/1	100					Sandy Loam	wood and coarse sand layers at 10 and 13		
13-24	10YR	2/1	100					Silty Clay Loam	with sandy layers		
									-		
			,								
									-		
¹ Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	ed Matrix ² Location				annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro		4	oils:	7			
	r Histel (A1)			Alaska Color Ch		-	L	Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder		
_	edon (A2)			Alaska Alpine s	-	-		Other (Explain in Remarks)			
✓ Hydrogen				Alaska Redox W	Vith 2.5Y F	lue	L		KS)		
	Surface (A12)			³ One indicator of	hydrophyt	tic vegetation	n, one prir	mary indicator of wetland	hydrology,		
Alaska Gle				and an appropriate							
Alaska Re	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	S				
Restrictive Laye		,									
Type:	· (···· /							Hydric Soil Present	:? Yes 🖲 No 🔾		
Depth (incl	nes):										
Remarks:											
fluvaquent soils	5?										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Ind	icators (two or more are required)		
Primary Indica	itors (any one i	s sufficient)						Water Sta	ined Leaves (B9)		
Surface V	. ,			Inundation Vi		-			Patterns (B10)		
✓ High Wate	. ,			Sparsely Vege		ncave Surfac	e (B8)		Rhizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	. ,				of Reduced Iron (C4)		
Water Ma				Hydrogen Sul				Salt Depo			
	Deposits (B2)			Dry-Season V		• •		_	r Stressed Plants (D1)		
Drift Dep	. ,			Other (Explain	n in Rema	rks)			nic Position (D2)		
	or Crust (B4)								quitard (D3)		
Iron Depo	oil Cracks (B5)							· · ·	graphic Relief (D4) al Test (D5)		
Field Observa											
Surface Wate			No 🖲	Depth (inche	c).						
Water Table F							Wetla	nd Hydrology Preser	nt? Yes $ullet$ No $igodom$		
Saturation Pre		Yes •		Depth (inches			Wetta	na nyarology riesei			
(includes capi				Depth (inche	s): I						
Describe Recor	ded Data (stre	am gauge, I	monitor wel	l, aerial photos, prev	vious inspe	ection) if ava	ilable:				
Remarks:											